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FEBRUARY 7, 1983

IRON AGE

THE MAGAZINE FOR METAL PRODUCING MANAGEMENT

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CONTINUOUS CASTING:

WHY MORE COMPANIES ARE MAKING A COMMITMENT

BERYLLIUM COPPER STRIP:
ROLLING IT WIDE AT CABOT BERYLCO

VOL. 226, NO. 4

IRON AGE

FEBRUARY 7, 1983

COVER STORY

MP-4 CONTINUOUS CASTING: MORE MILLS MAKE A COMMITMENT
American steelmakers are adding about 16 million tons of capacity to raise casting capacity by 60 pct over the previous level.

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Senate and Administration opposition may be formidable.

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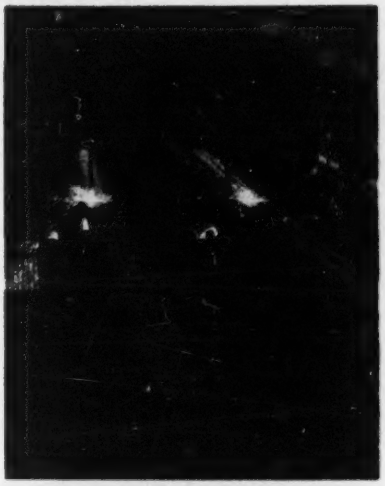

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EFFECTIVE JANUARY 24, 1983

MATERIALS NEWSFRONT

Price & Production Data

Steel production by districts, thousands of tons (000 omitted)

	Last Week	Two Weeks Ago	Month Ago	Year Ago
North East Coast	158	144	101	203
Buffalo	30	33	29	31
Pittsburgh	158	166	49	266
Youngstown	82	66	40	92
Cleveland	89	69	44	116
Detroit	116	113	106	102
Chicago	381	373	342	466
Cincinnati	65	65	53	70
St. Louis	54	54	26	32
Southern	110	100	53	203
Western	70	69	55	98
U.S. Production	1,313	1,252	898	1,679

Source: American Iron & Steel Institute

Lake Superior Ore Prices

51.50% Fe Natural delivered lower Lake ports. Rail transportation, handling and unloading may be charged to the account of the buyer. Coarse ore 80¢ premium.

Pellets (per iron unit natural)..... gross-ton 80.50-86.9*
Old range, non-bessemer ..... gross-ton $32.78
Mesabi, regular-unscreened ..... gross-ton $32.53
Mesabi, non-bessemer.....gross-ton $32.25-32.53**

*80.50¢—Pickands Mather as of 1/27/81.
**85.9¢—U. S. Steel as of 3/15/82. Cleveland-Cliffs as of 2/26/82, Oglebay Norton as of 3/25/82, and Hanna Mining as of 2/26/82.

Steel Production, Composite Prices

(Effective January 24, 1983)

U.S. Steel Production	Last Week	Two Weeks Ago	To Date 1983	To Date 1982
Net tons, in thousands	1,313	1,252	3,829	5,346
Capability Utilization Rate	45.3	43.2	42.0	57.8

Composite Prices	This Week	Week Ago	Month Ago	Year Ago
Finished Steel Base* (¢/lb.—eff. 2/6/83)	25.954	25.297	25.297	25.195
Pig Iron* * (Net ton = 2000 lbs.)	$213.00	$213.00	$213.00	$213.00
Scrap No. 1 hvy.* * * (Gross ton = 2240 lbs.)	$ 61.50	$ 60.50	$ 57.50	$ 83.83
No. 2 bundles	$ 42.50	$ 41.83	$ 40.83	$ 57.83
Scrap Comparison (Gross Ton)				
No. 1 steel, Pittsburgh .	$ 62.50	$ 62.50	$ 62.50	$ 94.50
No. 1 steel, Philadelphia	59.50	56.50	54.50	74.50
No. 1 steel, Chicago.....	62.50	62.50	55.50	82.50
No. 1 bundles, Detroit..	48.50	48.50	48.50	77.50
Low Phos., Youngstown	64.50	64.50	51.50	85.50
No. 1 mach'y cast., Pgh	61.50	61.50	61.50	93.50
No. 1 mach'y cast., Phila	98.50	98.50	98.50	111.50
No. 1 mach'y cast., Chi	106.50	106.50	104.50	124.50

*Finished Steel Composite
Weighted index of steel bars, shapes, plates, wire, rails, black pipe, hot and cold rolled sheets and strips.
* *Pig Iron Composite
Based on average prices for basic and foundry pig iron at representative producing points within the U.S.
* * *Steel Scrap Composite
Average of No. 1 hvy. melting steel scrap and No. 2 bundles delivered to consumers at Pittsburgh, Philadelphia and Chicago.

Nonferrous Prices

(Effective January 24, 1983)
Prices obtained in trade based on representative tonnages per gross ton delivered to consumer unless otherwise stated.

Primary Metal Prices

(cents per lb.)	current price	last price	date of change
Aluminum	76.00 (Nom.)	76.00-80.00	1/4/82
Copper (C)	77.00-78.00	78.00-80.00	1/20/83
Lead	21.00-24.00	22.00-24.00	1/19/83
Magnesium Ingot	134.00	125.00	6/1/81
Nickel	329.00	350.00	11/25/81
Titanium Sponge	555.00-585.00	555.00	4/29/82
Zinc	40.00	38.00-40.00	1/11/83

ALUMINUM: 99.5%. COPPER (C) = cathode. LEAD: common grade. MAGNESIUM: 99.8% plg. Velasco, Tex. NICKEL: electro., Port Colborne, Canada. ZINC: high grade.

Antimony, American Laredo, Texas . $2.00
Beryllium-aluminum 5% Be, per lb. contained Be $201.00
Beryllium-copper, per lb. cont. Be $121.00
Beryllium 97% powder 200 ..... $166.00
Bismuth, ton lots ..... $1.25-$1.40
Cadmium, under one ton ..... $1.05-$1.15
Calcium, ton lots, crown $3.05
Chromium, 99.8% $3.75
Cobalt, 99%, cathode $12.50
Gold per troy oz. $476.00
Indium, dollars per troy oz. ..... $2.60-$2.85
Iridium, dollars per troy oz. $600
Magnesium sticks, 10,000 lbs. $1.91
Mercury, per 76-lb. f.o.b. N.Y. .. $360-$380
Molybdenum, lb. tech. moly oxides, 20 lb. MO can $5.85
Nickel oxide sinter at U.S. points of entry $3.12
Palladium, per troy oz. $140
Platinum, per troy oz. $475
Rhodium, per troy oz. $600.00
Silver ingots, per troy oz. $12.30
Vanadium $4.94
Zirconium sponge ..... $12.00-$17.00
(Per lb. unless otherwise noted)

Straits Tin Price

(U.S. cents per lb, EX-SMELTER, based on daily market in Penang in Malaysian dollars per kilo.)

Jan. 17—582.44 Jan. 20—581.65
Jan. 18—581.92 Jan. 21—580.59
Jan. 19—581.25

Scrap Prices

Brass Mill Scrap

(Cents per lb; over 20,000 lbs. add 1¢ per lb)

	Solids	Turning
Copper	72½	63¼
Yellow brass	62⅛	55⅝
Red brass	66⅞	58⅛
Comm. bronze	68⅛	59½
Mang. bronze	60⅝	59¼
Free cutting rod ends	44	43

Custom Smelters Scrap

(Cents per lb., carload lots, del. refinery)

No. 1 copper wire	64
No. 2 copper wire	56
Light copper	47

Ingot Makers Scrap

(Cents per lb., carload lots, del. refinery)

No. 1 copper wire	60
No. 2 copper wire	52
Light copper	43
No. 1 composition	50
No. 1 comp. turnings	47
Hvy. yellow brass solids	33
Hvy. yellow brass turnings	25
Radiators	41

Aluminum

New mixed clips	27	—28
Old sheet	25	—26
Old cast	25	—26
Clean dry borings	26	—27

Dealers' Scrap

(Dealers' buying price f.o.b. New York in cents per pound)

Aluminum

Segregated clippings	23	—24
Mixed L.C. clips	21	—22
Old sheets and cast	15	—16
Borings and turnings	11	—12
Duraluminum clippings	20	—21

Copper and Brass

No. 1 copper wire	49	—50
No. 2 copper wire	42	—43
Light copper	36	—37
Radiators	34	—35
No. 1 composition	41	—42
No. 1 composition turn'gs	39	—40
Cocks and faucets	28	—29
Clean heavy yellow brass	26	—27
Brass Pipe	28	—29
New soft brass clippings	35	—36

Lead

Heavy soft lead	9	—10
Whole batteries	4	— 5
Type metal	14	—15
Electrotype	18	—19

Nickel

Nickel solids	85	— 90
Nickel rod ends	85	— 90
Nickel sheets, clips	85	— 90
Nickel turnings	40	— 45

Zinc

New zinc clippings	14	—15
Old diecast zinc	7	— 8

EFFECTIVE JANUARY 24, 1983

MATERIALS NEWSFRONT

(Effective January 24, 1983) Prices obtained in trade based on representative tonnages per gross ton delivered to consumer unless otherwise stated. Prices are the opinions of *Iron Age* editors and correspondents, based on contacts with dealers, brokers, generators and users in the industry on the effective date listed above.

Ferrous Scrap Prices

Pittsburgh

No. 1 hvy. melting	$ 62.00 to	$ 63.00
No. 2 hvy. melting	54.00 to	55.00
No. 1 dealer bundles	72.00 to	73.00
No. 1 factory bundles (auto)	68.00 to	69.00
No. 2 bundles	41.00 to	42.00
No. 1 busheling	69.00 to	70.00
Machine shop turn.	6.00 to	7.00
Shoveling turnings	20.00 to	21.00
Cast iron borings	18.00 to	19.00
Low phos. punchings plate	74.00 to	75.00
Heavy turnings	50.00 to	51.00
No. 1 RR hvy. melting	76.00 to	77.00
Rails 2 ft. and under	85.00 to	86.00
Scrap rails, random lgth.	80.50 to	81.50
RR specialties	78.00 to	79.00
No. 1 machinery cast	61.00 to	62.00
Cupola cast	54.00 to	55.00
Heavy breakable cast	30.00 to	31.00
Stainless		
18-8 bundles and solids	440.00 to	450.00
18-8 turnings	340.00 to	350.00

Chicago

No. 1 hvy. melting	$ 62.00 to	$ 63.00
No. 2 hvy. melting	53.00 to	54.00
No. 1 dealer bundles	71.00 to	72.00
No. 1 factory bundles (auto)	71.00 to	72.00
No. 2 dealer bundles	44.00 to	45.00
No. 1 busheling	70.00 to	71.00
Shredder scrap	70.00 to	71.00
Machine shop turn.	14.00 to	15.00
Mixed bor. and turn.	15.00 to	16.00
Shoveling turnings	19.00 to	20.00
Cast iron borings	33.00 to	34.00
Low phos. forge crop	80.00 to	81.00
Low phos. punchings plate ⅛ in. and heavier	85.00 to	86.00
Low phos. 2 ft. and under	80.00 to	81.00
No. 1 RR hvy. melting	83.00 to	84.00
Scrap rails, random lgth.	83.00 to	84.00
Reroller rails	91.00 to	92.00
Rails, 2 ft. and under	83.00 to	84.00
RR couplers and knuckles	70.00 to	71.00
RR car axles	99.00 to	100.00
No. 1 marhinery cast	106.00 to	107.00
Cupola cast	91.00 to	92.00
Stove plate	80.00 to	81.00
Steel car wheels	71.00 to	72.00
Stainless		
18-8 bundles and solids	410.00 to	420.00
18-8 turnings	310.00 to	320.00
430 bundles and solids	90.00 to	95.00
430 turnings	65.00 to	70.00

Philadelphia

No. 1 hvy. melting	$ 58.00 to	$ 61.00
No. 2 hvy. melting	50.00 to	53.00
No. 1 dealer bundles	70.00 to	73.00
No. 2 dealer bundles	40.00 to	43.00
No. 1 busheling	70.00 to	73.00
Shredder scrap	70.00 to	73.00
Machine shop turn.	19.00 to	22.00
Mixed bor. and turn.	19.00 to	22.00
Shoveling turnings	33.00 to	36.00
Clean cast chemical borings	40.00 to	43.00
Low phos. 5 ft. and under	69.00 to	72.00
Low phos. 2 ft. punchings	85.00 to	88.00
Electric furnace bundles	79.00 to	82.00
RR specialties	74.00 to	77.00
Rails, 2 ft. and under	89.00 to	92.00
Cupola cast	56.00 to	59.00
Heavy breakable cast	53.00 to	56.00
No. 1 machinery cast	97.00 to	100.00

Detroit

Broker buying prices per gross ton on cars:

No. 1 hvy. melting	$ 41.00 to	$ 42.00
No. 2 hvy. melting	39.00 to	40.00
No. 1 dealer bundles	48.00 to	49.00
No. 2 bundles	20.00 to	21.00
No. 1 busheling	47.00 to	48.00
Drop forge flashings	25.00 to	26.00
Machine shop turn.	15.00 to	16.00
Mixed borings and turn.	6.00 to	7.00
Shoveling turnings	15.00 to	16.00
Cast iron borings	5.00 to	6.00
Heavy breakable cast	24.00 to	25.00
Mixed cupola cast	40.00 to	41.00
Automobile cast	60.00 to	61.00
Stainless		
18-8 bundles and solids	315.00 to	325.00
18-8 turnings	215.00 to	225.00
430 bundles and solids	75.00 to	85.00

Youngstown

No. 1 hvy. melting	$ 59.00 to	$ 60.00
No. 2 hvy. melting	54.00 to	55.00
No. 1 dealer bundles	66.00 to	67.00
No. 2 dealer bundles	39.00 to	40.00
Machine shop turn.	2.00 to	3.00
Shoveling turnings	7.00 to	8.00
Low phos. plate	64.00 to	65.00
Electric furnace bundles	65.00 to	66.00
Galvanized bundles	59.00 to	60.00

Cleveland

No. 1 hvy. melting	$ 53.00 to	$ 54.00
No. 2 hvy. melting	24.00 to	25.00
No. 1 dealer bundles	55.00 to	56.00
No. 1 factory bundles	61.00 to	62.00
No. 2 bundles	22.00 to	23.00
No. 1 busheling	58.00 to	59.00
Machine shop turn.	2.00 to	3.00
Mixed bor. and turn.	2.00 to	3.00
Shoveling turnings	5.00 to	6.00
Cast iron borings	5.00 to	6.00
Cut structural & plates, 2 ft. and under	84.00 to	85.00
Low phos. punchings plate	84.00 to	85.00
Drop forge flashings	33.00 to	34.00
Foundry steel, 2 ft. & under	59.00 to	60.00
No. 1 RR hvy melting	63.00 to	64.00
Rails, 2 ft. and under	89.00 to	90.00
Rails, 18 in. and under	90.00 to	91.00
Steel axle turnings	69.00 to	70.00
Railroad cast	82.00 to	83.00
No. 1 machinery cast	79.00 to	80.00
Cupola cast	62.00 to	63.00
Stove plate	47.00 to	48.00
Stainless		
18-8 bundles	275.00 to	285.00
18-8 turnings	225.00 to	235.00
430 bundles	75.00 to	85.00

Buffalo

No. 1 hvy. melting	$ 25.00 to	$ 26.00
No. 2 hvy. melting	15.00 to	16.00
No. 1 busheling	30.00 to	31.00
No. 1 dealer bundles	28.00 to	29.00
No. 2 bundles	12.00 to	13.00
Machine shop turn.	1.00 to	2.00
Mixed bor. and turn.	8.00 to	9.00
Shoveling turnings	10.00 to	11.00
Cast iron borings	8.00 to	9.00
Low phos. plate	48.00 to	49.00
Structural and plate, 2 ft. and under	46.00 to	47.00
Rails, 2 ft. and under	42.00 to	43.00
Scrap rails, random lgth.	22.00 to	23.00
No. 1 machinery cast	63.00 to	64.00
No. 1 cupola cast	42.00 to	43.00

St. Louis

No. 1 hvy. melting	$ 52.00 to	$ 53.00
No. 2 hvy. melting	44.00 to	45.00
Foundry steel, 2 ft.	44.00 to	45.00
No. 1 dealer bundles	52.00 to	53.00
No. 2 bundles	41.00 to	42.00
Machine shop turn.	12.00 to	13.00
Shoveling turnings	18.00 to	19.00
Cast iron borings	30.00 to	31.00
No. 1 RR hvy. melting	52.00 to	53.00
Rails, random length	49.00 to	50.00
Rails, 18 in. and under	64.00 to	65.00
RR specialties	80.00 to	81.00
Cupola cast	70.00 to	71.00
Heavy breakable cast	48.00 to	49.00
Stove plate	70.00 to	71.00
Cast iron car wheels	49.00 to	50.00
Rerolling rails	84.00 to	85.00
Unstripped motor blocks	55.00 to	56.00

Birmingham

No. 1 heavy melting	$ 54.00 to	$ 55.00
No. 2 heavy melting	52.00 to	53.00
No. 1 dealer bundles	54.00 to	55.00
No. 2 bundles	40.00 to	41.00
No. 1 busheling	52.00 to	53.00
Shredder scrap	69.00 to	70.00
Machine shop. turn.	18.00 to	19.00
Shoveling turnings	25.00 to	26.00
Cast iron borings	26.00 to	27.00
Electric furnace bundles	53.00 to	54.00
Elec. furnace, 3 ft. & under	50.00 to	51.00
Structural and plate, 2 ft.	70.00 to	71.00
Structural and plate, 4 ft.	66.00 to	67.00
No. 1 RR hvy. melting	54.00 to	55.00
Scrap rails, random lgth.	52.00 to	53.00
Rails, 18 in. and under	73.00 to	74.00
Angles and splice bars	65.00 to	66.00
No. 1 cupola cast	74.00 to	75.00
Unstripped motor blocks	52.00 to	53.00

Cincinnati

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 38.00 to	$ 39.00
No. 2 hvy. melting	37.00 to	38.00
No. 1 dealer bundles	39.00 to	40.00
No. 2 bundles	26.00 to	27.00
Machine shop turn.	3.00 to	4.00
Shoveling turnings	6.00 to	8.00
Cast iron borings	8.00 to	9.00
Low phos. 18 in. and under	63.00 to	64.00
Rails, random length	45.00 to	46.00
Rails, 2 ft. and under	70.00 to	71.00
No. 1 cupola cast	55.00 to	56.00
Heavy breakable cast	22.00 to	23.00
Drop broken cast	62.00 to	63.00

New York

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 26.00 to	$ 27.00
No. 2 hvy. melting	22.00 to	24.00
No. 2 dealer bundles	22.00 to	23.00
Mixed bor. and turn.	7.00 to	8.00
Machine shop turn.	4.00 to	5.00
Shoveling turnings	10.00 to	12.00
Clean cast. chem. borings	34.00 to	35.00
No. 1 machinery cast	89.00 to	90.00
Mixed yard cast	38.00 to	39.00
Heavy breakable cast	14.00 to	15.00
Stainless		
18-8 prepared solids	375.00 to	400.00
18-8 turnings	260.00 to	280.00
430 prepared solids	70.00 to	80.00
410 solids	60.00 to	70.00

Boston

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 28.00 to	$ 30.00
No. 2 hvy. melting	20.00 to	22.00
No. 1 dealer bundles	30.00 to	32.00
No. 2 bundles	16.00 to	18.00
No. 1 busheling	30.00 to	32.00
Shredder scrap	38.00 to	40.00
Machine shop turn.	1.00 to	2.00
Shoveling turnings	1.00 to	2.00
No. 1 machinery cast	100.00 to	105.00
Mixed cupola cast	23.00 to	25.00
Heavy breakable cast	4.00 to	6.00

San Francisco

No. 1 hvy. melting	$ 39.00 to	$ 41.00
No. 2 hvy. melting	31.00 to	33.00
No. 1 dealer bundles	26.00 to	28.00
No. 2 dealer bundles	11.00 to	13.00
Machine shop turn.	4.00 to	6.00
Cast iron borings	4.00 to	6.00
No. 1 cupola cast	83.00 to	85.00

Los Angeles

No. 1 hvy. melting	$ 38.00 to	$ 40.00
No. 2 hvy. melting	27.00 to	29.00
No. 1 dealer bundles	25.00 to	27.00
No. 2 dealer bundles	8.00 to	10.00
Machine shop turn.	4.00 to	6.00
Shoveling turnings	8.00 to	10.00
Cast iron borings	4.00 to	6.00
Elec. furnace, 1 ft. and under (foundry)	84.00 to	86.00
No. 1 cupola cast	86.00 to	88.00

Seattle

No. 1 hvy. melting	$ 53.00 to	$ 55.00
No. 2 hvy. melting	42.00 to	44.00
No. 2 bundles	32.00 to	34.00
No. 1 cupola cast	88.00 to	90.00
Mixed yard cast	78.00 to	80.00

Hamilton, Ont.

Brokers buying price per net ton on cars:

No. 1 heavy melting	$ 33.00
No. 2 heavy melting cut 2 ft. and under	30.00
No. 1 dealer bundles	40.00
No. 2 bundles	5.00
Mixed steel scrap	17.00
Bush. new fact. prep'd.	38.00
Bush. new fact. unprp'd.	30.00
Machine shop turn.	18.00
Short steel turn.	21.00
Mixed bor. and turn.	10.00
Cast scrap	30.00

Houston

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 52.00 to	$ 53.00
No. 2 hvy. melting	40.00 to	41.00
No. 2 bundles	28.00 to	30.00
Machine shop turn.	12.00 to	13.00
Crushed turnings	24.00 to	26.00
Shredder scrap	52.00 to	53.00
Cut structural plate 2 ft. and under	74.00 to	76.00
Unstripped motor blocks	55.00 to	57.00
Cupola cast	64.00 to	66.00

STEEL PRICES

Codes identify Producers listed in the Key on page 50. (Prices quoted are mill base prices in cents per pound unless otherwise noted and do not reflect extras or surcharges.) N.A.—Not available.

Billets, Blooms, Slabs

(Dollars per net ton)

Carbon Rerolling, Midwest	
W5	$366.00
N4	$366.00
West	
C6	$346.00
Carbon Forging, East	
B3(3), C10	$420.00
R3	$420.00
Midwest	
R3, U1, W5	$420.00
S1	$420.00
C10	$420.00
K2	$400.00
W5	$400.00
West	
B3(2)	$430.00
C6	$420.00
South	
A7	$420.00
Alloy, East	
R3, C10	$459.00
B3	$459.00
Midwest	
W6, W5, C10	$459.00
S1, U1	$459.00
R3	$459.00
West	
B3	$469.00
C6	$469.00
South	
A7	$459.00

Piling Sheet Steel

(cents per lb)

Midwest	
U1	26.45

Structurals

Carbon, East	
B3(2)	23.90
U1, J3	23.90
Midwest	
A7	24.15
C20	22.90
W8	22.90
I3, T10, U1, N4	23.90
West	
C6	25.10
U1	24.40
B3(2)	21.65
South	
C16, U1	23.90
T10	22.90
A8	Cmp*
High-Strength, Low Alloy, East	
B3(2)	23.90
U1, J3	23.90
Midwest	
N4	23.90
W8	24.15
U1	23.90
I3	23.90
West	
U1, A7	24.40
B3(2)	21.65
South	
U1, C16	23.90
Wide Flange, Carbon, East	
B3	23.90
U1, A7, J3	23.90
Midwest	
U1	23.90
N4	23.90
I3	23.90
West	
U1	24.40
C6	24.15
South	
A7	24.15

Strip

Hot-Rolled, Carbon, Cut ll Edge—all widths, East	
B3, U1	20.80
J3	20.80
Midwest	
A7, D1	20.80
I4	20.20
S1, J3, D1	20.80
W3	20.80
N4	22.55
W5	20.80
U1	20.80
B3, G2, I3, M2, R3, J3, G3	20.80
West	
K1	20.80
B3	24.70
South	
R3	20.80
Cold-Rolled, Carbon Max. 25%, East	
E4	29.75
R7, S10, B4	29.60
P15	24.80
S7	Cmp*
U1	33.25
D1(1)	Cmp*
B4	31.55
Midwest	
G4	24.80
I4	30.15
W14	22.95
S1, U1, J4	32.00
T4	Cmp*

*Composite pricing

West	
U1	33.25
High-Strength, Hot-Rolled, Low Alloy, Cut Edge & Mill Edge—all widths, East (plus extras)*	
Midwest	
M2, G3, R3, W3, I4, J3, G2, I3	20.80
A7	20.80
S1	20.80
West	
K1	20.80
South	
R3	20.80
High-Strength, Cold-Rolled, Low Alloy, Mill Edge, East	
R7	29.00
Midwest	
S1	32.00
Alloy, Hot-Rolled, Midwest (plus extras)*	
S1	23.20
G4	25.80
I4	22.70
Alloy, Cold-Rolled, East	
C11, E4, M8	43.35
R7	32.75
B4	42.60
P15	32.10
S1	39.90
Midwest	
I4	39.40
S1	37.65

Sheets

Hot-Rolled, Carbon (18 Ga & Hvyr), East	
B3	20.80
J3	20.80
U1	20.80
Midwest	
A7, U1, B3, G2, G3, I3, M2, R3, W3	20.80
S1, W5, D1	20.80
J3	20.80
I4	19.90†
West	
U1	21.30
K1	20.80
South	
R3	20.80
Cold-Rolled, East, Class I	
B3(2), U1	24.65
J3	24.65
Midwest	
B3, I3, G3, R3, M2, U1(2)	24.65
G2, W3, M11	24.65
I4	22.00
J3, A7	24.65
S1, W5, D1	24.65
West	
U1	25.15
South	
R3	24.65
Galvanized (hot-dipped), East	
B3(2)	26.25
Midwest	
J3, D1	26.25
I3, W5, S1	26.25
U1, A7, R3, Y1	26.25
G2, W3, M11	26.25
West	
K1	27.15
South	
U1	26.25
R3	26.25
Enameling, Midwest	
A7, I3, U1, J3	26.15
S1	26.50
Long-Terne, Midwest	
W5	28.30
A7, U1	27.60
R3	27.60

†Actual weight basis

Wire Rod

East	
B3(2)	22.35
U1	22.35
Midwest	
N4	22.35
U1, K2	22.35
West	
A7	22.00
C6	21.45
B3	23.25
South	
G7	22.35

Tinplate

Electrolytic Tinplate

	per base box
Single Reduced (70 lb)	
East	
B3, J3	$26.29
U1	26.29
Midwest	
B3	$26.29
U1	26.29
J3 (75 lb)	26.29
M11	26.29
W3	26.29
W5	26.29
West	
K1	$25.44
U1	26.79
South	
U1	$26.29
Double Reduced (55 lb)**	
Midwest	
M11 (50 lb)	$21.49
B3, J3	21.49
U1	21.49
W3	21.49
W5	21.49
West	
K1	$20.39
U1	21.99
South	
U1	$21.49
Black Plate	
Single Reduced (75 lb)*	
East	
B3	$23.36
Midwest	
J3	$23.36
M11	24.01
I3, U1, W5	23.36
W3	24.01
West	
K1	$24.01
U1	23.36
Double Reduced (55 lb)	
East	
B3	$18.93
Midwest	
M11	$18.93
W5, U1	18.93
J3	18.93
W3	18.93
W5	18.93
West	
U1	$18.93
South	
U1	$18.93

*70 lb—base weight extra 45¢
**50 lb—base weight extra $1.40

Bars

Carbon Steel, Hot-Rolled
(Special quality)

East	
R3, K3	23.95
R5	23.95
B3(3), J3	23.95
U1, C10	23.95
Midwest	
A7, C20, N4	23.95
U1, I3, I4	23.95
R3, T10	23.95
K2	23.95
I3	19.50*
West	
B3	23.95
C6	24.45
U1	23.95
B3	24.70
South	
A8	20.65
A7	23.95
C16	23.95
Cold-Finished Carbon, East	
A11	22.15
J3(2)	31.50
R3	31.50
C21	21.15
J3, L2	31.00
C2	23.025
M8, W10, T11, S8	31.00
N1	24.475
R4	22.25
B4	31.00
M1	23.025
B4, C10	31.00
J3	31.50
Midwest	
B5, W10, Y1, W8, R3	31.00
J3	32.15
B1	19.80
L2	30.75
N9	31.00
P3	19.85+CMS
W14	22.20
J3(3)	31.00
B5	31.25
J3	32.15
West	
B5	31.20
B5	34.90
R3	31.20-34.90
South	
B5	32.85
J3	31.95
C16	24.40
J3	31.95
Alloy, Hot-Rolled, East	
B3(2), R5, K3, C10	26.10
R3	26.10
J3	26.10
Midwest	
A7, U1, R3	26.10
I3, C10	26.10
I4	24.85
I3	21.00*
West	
B3, U1	26.10
B5	18.50
C6	26.60
B3	27.10
South	
A7	24.85
A8	22.00
Alloy, Cold Drawn, East	
L2	35.20
R3, N1, C2	35.40
M1	28.025
R4	25.65
A11	30.50
J3, W10, L2	34.85
T11, S8	34.85
C10	34.85
J3(2)	35.40
Midwest	
B5, R3, C10	34.85
C2	28.275
J3, M9, W10	35.40
P3	22.75
B1	22.70
N9	34.85
L2	34.65
B5	35.10
J3	36.00
J3	34.85
West	
R3	35.20-38.25
B5	35.20
B5	38.25
South	
J3	35.40
C16	28.00
B5	36.75

Plates

Carbon Steel, East	
B3(2)	24.25
L4	24.25
P2	24.25
U1	24.25
J3	25.25
Midwest	
B3, R3, S1	24.25
I3	24.25
J3, A7	21.70
U1, I4	24.25
West	
A7, B3, C6, O2	24.25
K1	23.50
U1	24.25
South	
R3	24.25
A7	25.25
U1	24.25
Alloy, East	
B3, J3	32.05
U1, L4	32.05
P2	32.05
Midwest	
B3	32.05
Q2, G3	32.05
I4, U1	33.05
West	
B3	32.05
O2	30.55
K1	31.30
South	
A7	27.55

Wire

Carbon Steel Wire, East	
B3(2)	27.10
U1	27.70
A11	22.15
Midwest	
U1	27.70
A7, R3	24.60
N4, W7	27.40
K2	24.20
South	
A8	22.85
West	
A7	25.95
C6	24.95

STEEL PRICES

Producer Key
With Principal Offices

A4 American Cladmetals Co., Carnegie, Pa.
A7 Armco Inc., Middletown, Ohio
A8 Atlantic Steel Co., Atlanta, Ga.
A11 Atlantic Wire Co., Branford, Conn.

B1 Baron Drawn Steel Corp., Toledo, Ohio
B3 Bethlehem Steel Corp., Bethlehem, Pa.
B4 Blair Strip Steel Co., New Castle, Pa.
B5 Bliss & Laughlin Steel Co., Harvey, Ill.

C1 Calstrip Corp., Los Angeles
C8 CF&I Steel Corp., Pueblo, Colo.
C10 Copperweld Steel Co., Warren, Ohio
C11 Crucible Divisions, Colt Industries, Pittsburgh, Pa.
C15 G. O. Carlson, Inc., Thorndale, Pa.
C16 Connors Steel Co., Birmingham, Ala.
C20 Calumet Steel Div., Chicago Heights, Ill.
C21 Cumberland Steel Co., Cumberland, Md.

D1 Detroit Strip Div., Cyclops Corp.
D2 Driver Wilbur B., Co., Newark, N. J.
D3 Driver Harris Co., Harrison, N. J.

E3 Enamel Products & Plating Co., McKeesport, Pa.
E4 Elliot Bros. Steel Co., New Castle, Pa.

F1 Firth Sterling, Inc., McKeesport, Pa.

G2 Granite City Steel Co., Granite City, Ill.
G3 Great Lakes Steel Division, National Steel Corp., Ecorse, Mich.
G4 Greer Steel Co., Dover, O.
G5 Green River Steel Corp., Owensboro, Ky.
G6 Gibraltar Steel Corp., Buffalo, N. Y.
G7 Georgetown Steel Corp., Georgetown, S. C.
G8 Guterl Special Steel Corp.

H1 Hercules Drawn Steel Corp., Livonia, Mich.

I2 Ingersoll Steel Div., New Castle, Ind.
I3 Inland Steel Co., Chicago, Ill.
I4 Interlake Steel Corp., Chicago

J2 Jessop Steel Corp., Washington, Pa.
J3 Jones & Laughlin Steel Corp., Pittsburgh
J4 Joslyn Mfg. & Supply Co., Chicago
J5 Judson Steel Corp., Emeryville, Calif.

K1 Kaiser Steel Corp., Fontana, Calif
K2 Keystone Consolidated Industries, Inc.
K3 Kentucky Electric Steel Co., Ashland, Kentucky
K5 Kemco Div., Foote Mineral Co., Keokuk, Iowa

L2 La Salle Steel Co., Chicago
L3 Lone Star Steel Co., Dallas
L4 Lukens Steel Co., Coatesville, Pa.
L5 Litho-Strip Corp., Chicago

M2 McLouth Steel Corp., Detroit
M4 Mid States Steel & Wire Co., Crawfordsville, Ind.
M8 Mill Strip Products Div., National Steel Service Center, National Steel Corp.
M9 Moltrup Steel Products Co., Beaver Falls, Pa.
M11 Midwest Steel Div., National Steel Corp., Portage, Ind.

N1 Northeast Precision Steel Co., Boston, Mass.
N4 Northwestern Steel & Wire Co., Sterling, Ill.
N6 Northwest Steel Rolling Mills, Seattle, Wash.
N9 Nelsen Steel & Wire Co., Chicago, Ill.
N10 North Star Steel Co., Saint Paul, Minnesota

O2 Oregon Steel Mills, Portland, Ore.

P2 Phoenix Steel Corp., Claymont, Del.
P3 Wyckoff Steel Div., Plymouth, Mich.
P9 Pacific States Steel Co., Niles, Cal
P13 Penn Dixie Steel Corp., Kokomo, Ind.
P14 Pacific Tube Co., Los Angeles
P15 Philadelphia Steel and Wire Corp., [illegible]

R3 Republic Steel Corp., Cleveland
R4 Ramco Steel Co., Buffalo, N. Y.
R5 Roblin Steel Corp., Inc., North Tonawanda, N. Y.
R6 Rodney Metals, Inc., New Bedford, Mass.
R7 Rome Strip Steel Co., Rome, N. Y.

S1 Sharon Steel Corp., Sharon, Pa.
S7 Stanley Works, New Britain, Conn.
S8 Superior Drawn Steel Co., Monaca, Pa.
S10 Seneca Steel Service, Buffalo, N. Y.
S16 Southern Precision Steel Co., Gulfport, Miss.

T4 Thomas Steel Strip Co., Warren, O.
T5 Timken Company, Steel Division, Canton, O.
T7 Texas Steel Co., Fort Worth, Tex.
T9 Triumph Electro Corp., Chicago, Ill.
T10 Tennessee Forging Steel Corp., Harriman, Tenn.
T11 Teledyne Columbia-Summerill, Carnegie, Pa.

U1 United States Steel Corp., Pittsburgh, Pa.

W3 Weirton Steel Division, National Steel Corp., Weirton, West Va.
W5 Wheeling-Pittsburgh Steel Corp.
W7 Wilson Steel & Wire Co., Chicago
W10 Wyckoff Steel Div., Ampco-Pittsburgh Corp., Pittsburgh, Pa.
W14 Whittaker-Steel Strip Div., Detroit, Mich.

Steel Service Center Prices

Price, Dollars per 100 lb

Cities* / City Delivery Charge*	Sheets			Strip	Plates	Shapes	Bars		Alloy Bars			
	Hot-Rolled (10 gage)	Cold-Rolled (20 gage)	Galvanized (16 gage)	Hot-Rolled Strip	Plates	Standard Structurals	Hot-Rolled (merchant)	Cold Finished	Hot-Rolled 8620 As Rolled	Hot-Rolled 4140 Annealed	Cold-Drawn 8620 As Rolled	Cold-Drawn 4140 Annealed
Atlanta	25.04	29.02	31.47	33.74	28.64	31.07	20.27	36.38	42.10	52.60	69.58	73.19
Baltimore	32.25	24.49	32.76	34.74	28.83	31.13	22.17	36.44	55.85	59.91	67.79	76.32
Birmingham	25.90	30.24	36.47	35.03	29.67	31.68	21.36	42.09	49.31	50.41	68.16	74.43
Boston	23.43	28.25	31.93	44.27	37.43	37.68	21.80	47.75	57.60	60.66	68.49	75.74
Buffalo	27.75	34.41	36.35	43.01	35.20	32.46	18.26	45.85	54.11	55.64	62.09	70.72
Chicago	20.66	27.56	29.92	28.38	27.89	27.59	15.85	36.51	36.36	45.80	49.72	56.53
Cincinnati	21.18	28.39	33.39	33.39	28.93	32.06	17.72	37.94	38.07	45.12	51.63	55.79
Cleveland	28.24	31.54	33.44	31.13	28.63	31.81	17.45	42.44	39.27	49.22	55.16	61.24
Denver	32.69	38.65	38.66	42.32	36.91	38.18	22.79	49.35	56.13	65.40	72.50	81.22
Detroit	22.66	31.48	32.73	33.22	28.59	23.84	17.16	38.14	36.36	42.15	50.79	56.90
Houston	23.83	28.28	32.53	41.35	34.12	37.90	17.16	38.14	36.36	42.15	50.79	56.90
Kansas City	23.37	27.16	31.59	30.36	30.20	34.55	17.37	43.29	41.88	50.92	56.17	63.93
Los Angeles	30.02	38.03	39.14	45.66	37.13	38.95	33.49	50.38	62.24	72.33	77.74	89.22
Memphis	31.11	31.16	35.27	37.84	31.07	33.84	32.34	39.82	52.82	56.96	67.85	77.44
Milwaukee	21.60	28.47	30.74	30.92	30.45	30.42	16.02	38.52	36.88	47.20	52.71	59.02
New York	22.00	26.53	30.70	42.40	31.67	32.93	20.83	48.87	50.98	59.83	68.45	75.35
Philadelphia	26.57	34.80	37.22	44.85	33.40	37.64	22.07	47.16	51.67	58.71	67.13	74.37
Pittsburgh	23.85	28.39	32.99	40.86	36.80	22.09	21.35	43.55	48.95	59.88	66.19	72.84
Portland	32.04	37.16	41.51	33.10	34.82	38.20	53.64	56.85	61.00	64.10	66.10	....
San Francisco	29.27	35.77	39.71	45.05	38.70	39.18	31.92	51.14	62.56	71.65	77.93	86.10
Seattle	29.85	35.14	37.88	46.76	32.89	35.32	29.86	51.38	64.02	70.14	73.83	87.67
Spokane	21.08	30.56	33.56	36.69	35.18	25.16	20.32	41.00	42.02	46.30	....	58.32
St. Louis	24.60	29.12	32.77	36.50	28.14	32.45	18.68	42.59	43.13	51.08	58.11	63.64
St. Paul	23.43	27.76	32.10	35.20	29.31	32.38	16.87	43.07	39.20	48.63	51.53	60.75

Base Quantities. All HR products may be combined for quantity. Hot-rolled sheet, 10 ga x 36 x 96—120; Cold-rolled sheet, 20 ga x 36 x 120; Galv. sheet—16 ga x 36—120; Hot-rolled strip—⅛" x 1"; Plate ¼" x 84/; Shapes—I-Beams 6 x 12.5; Hot-rolled bar—Rounds ¾-2$^{15}/_{16}$; Cold finished bar—C 1018—1" rounds; Alloy bar—Hot-rolled 8620—1¾" round; Cold drawn—1" round; Hot-rolled 4140—1¾" round; Cold drawn—1" round. Check local supplier for additions or deductions from base.

*Prices at all points include metropolitan delivery charges.

METALWORKING PRICE TRENDS

The sharp markdown in price tags goes on and on

Disinflation continued in motion as 1982 closed and 1983 started.

In the case of the 22 metalworking product lines listed on the table here, the overall rate of price advance over the year—from December 1981 through December 1982—averaged 3.4 pct. That was the lowest over-the-year inflation rate for these product lines in 10 years.

More than that, the price advance rate was less in the last of those months—December 1982—than for the year as a whole. On an annual basis, prices of these products rose by 3.0 pct in December.

In other words, metalworking prices were decelerating further as the year ended.

Prices of producers' finished goods overall showed a similar pattern of disinflation in December. On a December-to-December basis, these prices rose by 3.5 pct. That was the smallest change for any calendar year since the 3.2 pct advance recorded in the 12 months ended in December 1971.

Too, the producer finished goods price hike of 3.5 pct over the year was less than half the hike of 7.1 pct for 1981. And it was light years down from the 12.8 pct and 11.8 pct inflation rates scored in 1979 and 1980, respectively.

In the key metalworking product lines listed here, only the tags for electric motors showed the price-push pressures of the 1979-80 era. These prices rose 1.9 pct in December. That represents an annual rise rate well into the double digits. Demand for electric motors is relatively quite strong.

The overall producer price sag in December, and for 1982 as a whole, was led by actual falling prices for energy goods. These prices declined by 0.1 pct last year. That slide followed rises of 14.1 pct in 1981 and 27.8 pct in 1980.

Predictably, disinflation is causing both cheers and groans. Buyers like it. But many sellers find it squeezing their profits, especially the sharp disinflation experienced recently. However, many economists and business executives seem to feel that the disinflation process has now about hit bottom. A plateauing of prices at the present low level is expected to be the continuing inflation scenario.

Prices of capital equipment bucked the overall softening trend in December—they rose at an annual rate of more than 7 pct.

Latest Month Covered: December, 1982

Products	Index Reading For Month (1967 = 100)	Pct Change From Previous Month	Pct Change From Year-Ago Month
Metal Cutting Machine Tools	372.7	− 0.1	+ 4.0
Metal Forming Machine Tools	411.8	+ 0.1	+ 4.2
Agricultural Machinery & Equip.	319.9	+ 0.6	+ 5.6
Construction Machinery & Equip.	347.9	0	+ 4.8
Industrial Process Furnace & Ovens	356.4	+ 0.1	+ 4.7
Industrial Material Handling Equip.	286.9	+ 0.2	+ 0.6
Pumps, Compressors & Allied Equip.	348.2	+ 0.1	+ 2.8
Fluid Power Equip. (Dec. 1970 = 100)	248.9	+ 0.7	+ 5.7
Mechanical Power Transmission Equip.	312.0	+ 0.2	+ 1.8
Automobiles	218.8	+ 0.2	+ 1.9
Motor Trucks—Light	275.3	+ 0.5	+ 1.8
Motor Trucks—Heavy	317.5	0	+ 7.6
Railroad Equipment	357.5	0	+ 5.1
Fabricated Metal Structural Products	304.6	+ 0.6	+ 0.5
Electric Motors	298.8	+ 1.9	+ 3.2
Valves & Fittings	323.5	+ 0.2	+ 1.5
Ball & Roller Bearings	335.3	0	+ 4.3
Cutting Tools & Accessories	272.1	+ 0.1	+ 3.1
Heating Equipment	239.3	+ 0.2	+ 4.1
Plumbing Fixtures & Brass Fittings	279.1	+ 0.3	+ 1.9
Metal Containers	325.7	− 0.4	+ 2.8
Miscellaneous Metal Products	288.7	+ 0.1	+ 3.7

Data based on U.S. Labor Dept.'s Producer Price Index